CUMMINS ENGINE DATASHEET



ENGINE MODEL: 4BT3.9-G2

PERFORMANCE CURVE: FR L003



DONGFENG CUMMINS ENGINE Co., Ltd.

XiangFan HuBei P.R.CHINA

ENGINE DATASHEET—for G-drive

ENGINE MODEL		FREFORMANCE CURVE
4BT3.9-G2		FR L003
ENGINE FAMILY	CPL	2006/04
D38	PP L005	2006/04

@RPM

Displacement 3.9 L Air intake way turbo-charged

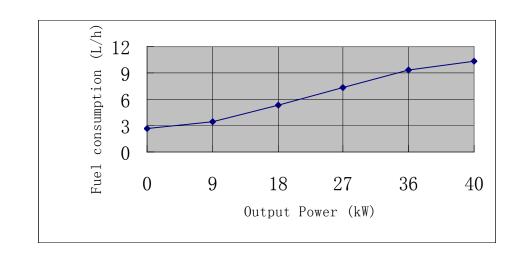
Cylinder bore 102 mm Cylinder quantity 4 kW(BHP)

Stroke 120 mm 36(48) 1500 Fuel system A pump GAC governor/ BYC ASIMCO Speed-droop 5%

Engine testing with fuel system, water pump and oil pump, without air compressor, alternator, fan, other options and driving accessory. Testing condition: air intake resistance 250 mmHg, exhaust back pressure 50 mmHg.

Engine	Standby	/ Power	Base Out	put Power	Continuo	us Power
Speed-RPM	kW	HP	kW	HP	kW	HP
1500	40	54	36	48	N/A	N/A

Output Power		Fuel consumption		
%	kW	HP	g/kW.h	L/h
Standby Pow	er			
100	40	54	212	10.3
Base Output	Power			
100	36	48	214	9.3
75	27	36	223	7.3
50	18	24	244	5.3
25	9	12	312	3.4
Continuous Power				
N/A	N/A	N/A	N/A	N/A



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Typic	al e	ngine	e data
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Net weight	Kg
Rotate part instantaneous inertia _ without flywheel	kg.m2
Distance between gravity center and rear surface of cylinder block	mm
Distance between gravity center and center line above of crankshaft	mm

Engine installation

Static bent torque permitted—rear surface of cylinder block	N.m	1356
Static bent torque permitted—front surface of cylinder block	N.m	435
Static bent torque permitted—flank surface of cylinder block	N.m	365

Exhaust system

Max. back pressure	mmHg	76
Diameter of exhaust pipe recommended	mm	75

Air intake system

Max. air intake resistance		
Dirty filter	mmH2O	635
Normal air cleaner and clean filter	mmH2O	254
Heavy duty cleaner and clean filter	mmH2O	381
Diameter of intake pipe recommended	mm	75

Lubrication system

Normal oil pressure range

Low idle	kPa	207
Rated speed	kPa	345
Max. oil temperature permitted in oil pan	${}^{\mathbf{c}}$	121
Oil pan capacity (Max _ Min)	L	9.5_8.5
Lubrication system Min. capacity (oil pan + oil filter)	L	10.9
Usage inclining degree permitted (any direction)	0	40
Fuel system		
Fuel injection pump model	BYC A pump with	h GAC governor
Max. fuel input resistance of transfer pump	mmHg	102
Max. overflow fuel resistance at overflow pipe of injector	mmHg	254
Total fuel overflow amount	L/h	30
Cooling system		
Coolant capacity-engine only	L	7.2
Max. coolant cycling resistance exterior engine	kPa	28
Thermostat adjusting temperature (range)	${}^{\mathbf{c}}$	82_95
Min. opening pressure of radiator cap	kPa	69
Max. coolant temperature permitted _ Standby Power/Base output Power	${\mathbb C}$	104/100
Electric system		
Starter	12V	24V
Battery charging system	63A	40A
Max. starting circuit resistance	0.00075Ω	0.002Ω
Min. battery capacity12℃ (CCA: Cold Cranking Ampere)	625CCA	312CCA
Technical data _ under standard fuel delivery rate FR L003	Base output Power	Standby Power
Engine speed _ RPM	1500	1500
Output Power _ kW	36	40

Torque _ Nm	229	255
Low idle _ RPM	950-1050	950-1050
Friction energy output _ kW	8.2	8.2
Piston speed _ m/s	6.0	6.0
Engine coolant flow _ L/sec	2.2	2.2
Air intake flow _ L/sec	43.6	44.9
Exhaust flow _ L/sec	101	108
Exhaust temperature _ °C	463	487
Environment energy output _ kW	N/A	N/A
Coolant energy output _ kW	25.9	29
Fuel energy output _ kW	N/A	N/A

All data's error within ±5%.

Excuse for none notice anymore in case of data changed

DONGFENG CUMMINS ENGINE Co., Ltd.